

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P748577

Luminaire Tested: LD4D45BD010-EU4DR4540509030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR4540509030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

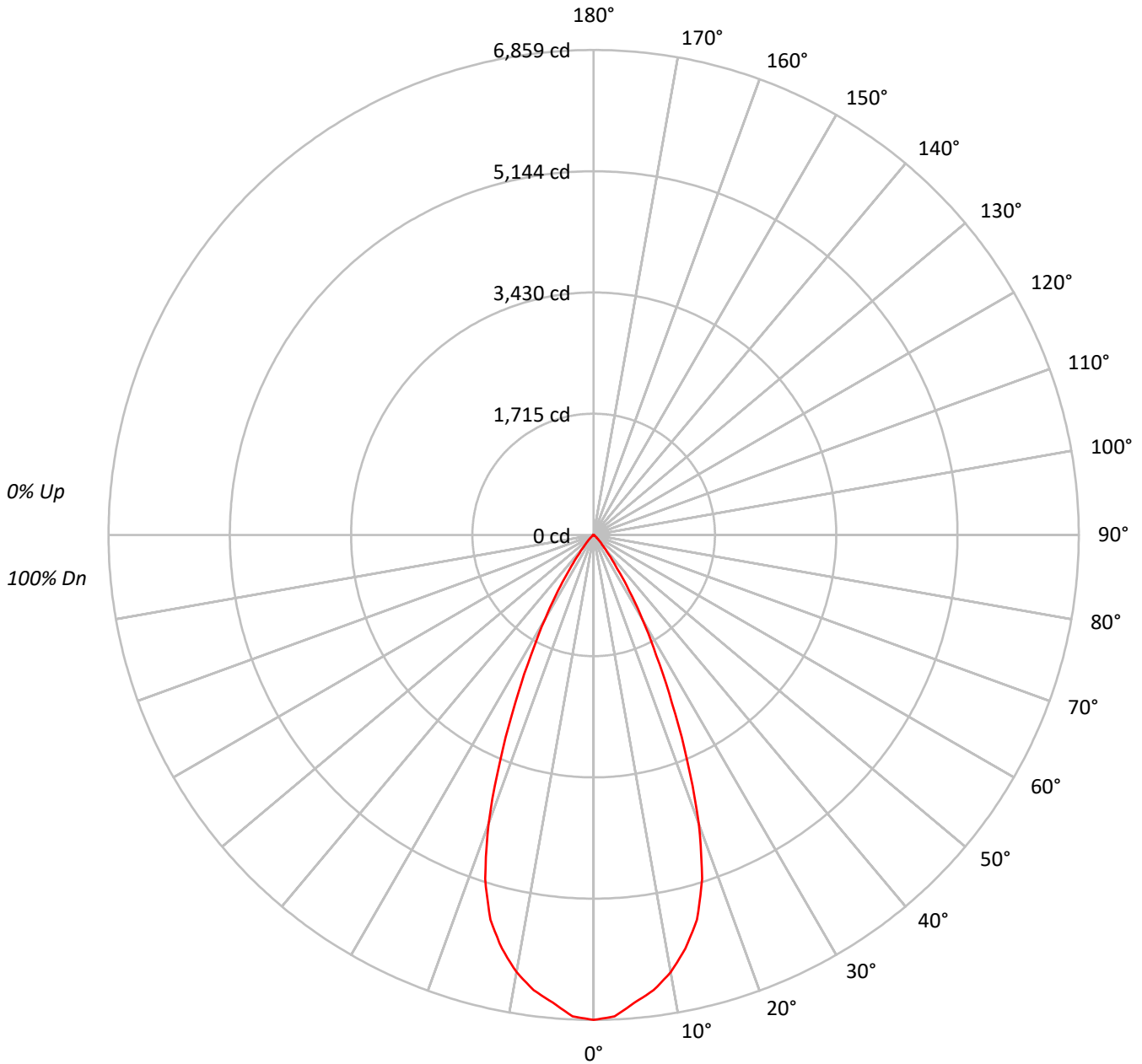
Lumens per Lamp: N/A
Luminaire Lumens: 3880.6 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95					95			
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90					90			
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85					85			
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81					81			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77					77			
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73					73			
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69					69			
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66					66			
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63					63			
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60					60			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	749430
5°	728098
10°	696587
15°	637528
20°	505775
25°	315760
30°	174042
35°	78149
40°	30780
45°	14509
50°	6884
55°	3600
60°	1770
65°	414
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14509 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.8	16.1
10°-20°	1535.1	39.6
20°-30°	1215.7	31.3
30°-40°	404.8	10.4
40°-50°	80.4	2.1
50°-60°	18.3	0.5
60°-70°	2.6	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3374.5	87.0
0°-40°	3779.3	97.4
0°-60°	3878.0	99.9
0°-90°	3880.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3880.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6859	
5°	6638	624
15°	5636	1535
25°	2619	1216
35°	586	405
45°	94	80
55°	19	18
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6859.1
2.5°	6814.4
5°	6638.5
7.5°	6493.4
10°	6278.6
12.5°	5992.7
15°	5636.1
17.5°	5099.8
20°	4349.9
22.5°	3456.5
25°	2619.2
27.5°	1917.9
30°	1379.5
32.5°	938.2
35°	585.9
37.5°	347.4
40°	215.8
42.5°	141.9
45°	93.9
47.5°	60.4
50°	40.5
52.5°	27.0
55°	18.9
57.5°	12.4
60°	8.1
62.5°	4.3
65°	1.6
67.5°	0.5
70°	0.5
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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